



<b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete if Known</b>	
		Application Number	09/989,687-Conf. #9708
		Filing Date	November 21, 2001
		First Named Inventor	Luisa Iruela Arispe
		Examiner Name	K. A. Canella
		Art Unit	1642
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Attorney Docket No.	PF453P3
<b>TOTAL AMOUNT OF PAYMENT</b>		<b>(\$)</b>	0.00

<b>METHOD OF PAYMENT</b> (check all that apply)	
<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card
<input type="checkbox"/> Money Order	<input type="checkbox"/> None
<input type="checkbox"/> Other (please identify): _____	
<input checked="" type="checkbox"/> Deposit Account	Deposit Account Number: <u>08-3425</u> Deposit Account Name: <u>Human Genome Sciences, Inc.</u>
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, <b>except for the filing fee</b>
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17	<input checked="" type="checkbox"/> Credit any overpayments

<b>FEE CALCULATION</b>							
<b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>							
	<b>FILING FEES</b>		<b>SEARCH FEES</b>		<b>EXAMINATION FEES</b>		
		<b>Small Entity</b>		<b>Small Entity</b>		<b>Small Entity</b>	
<b>Application Type</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fee (\$)</b>	<b>Fees Paid (\$)</b>
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
<b>2. EXCESS CLAIM FEES</b>							
<b>Fee Description</b>	<b>Fee (\$)</b>	<b>Small Entity Fee (\$)</b>					
Each claim over 20 (including Reissues)	50	25					
Each independent claim over 3 (including Reissues)	200	100					
Multiple dependent claims	360	180					
<b>Total Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>			
30	- 30 =	x	=	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>		
<b>Indep. Claims</b>	<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>				
4	- 4 =	x	=				
<b>3. APPLICATION SIZE FEE</b>							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>			
	- 100 =	/50	(round up to a whole number) x	=			
<b>4. OTHER FEE(S)</b>							
Non-English Specification, \$130 fee (no small entity discount)							
Other (e.g., late filing surcharge): _____							

<b>SUBMITTED BY</b>		<b>Registration No.</b>	<b>Telephone</b>
Signature		(Attorney/Agent) 41,512	(301) 610-5764
Name (Print/Type)	Melissa J. Pytel	Date	6/16/05



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Arispe et al.

Docket No.: PF453P3

Application No.: 09/989,687

Confirmation No.: 9708

Filed: November 21, 2001

Art Unit: 1642

For: METH1 and METH2 Polynucleotides and  
Polypeptides

Examiner: K. A. Canella

**AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed March 25, 2005 (Paper No. 20050321), please enter the following amendments and remarks. Applicants submit concurrently herewith: (1) a Fee Transmittal Sheet (in duplicate); (2) a copy of ATCC Deposit Receipt for Accession Numbers 209581 and 209582 as Exhibit A; and (3) alignments of the amino acid sequence provided in Figure 1 of US 6,649,377 with the amino acid sequences in SEQ ID NOS:2 and 4.

Amendments to the claims begin on page 2.

Remarks begin on page 9.